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slicompliance.com SLI Compliance, a Division of GLI®

May 19, 2020

U.S. Election Assistance Commission
1335 East West Highway, Ste. 4300
Silver Spring, MD 20910

Re: ECO-01393 – HP Z4 G4 Workstation and P244 Display

Dear Mr. Lovato,

At the request of Hart InterCivic, SLI is providing an assessment of ECO-01393, including supporting documentation provided by Hart InterCivic, to determine if this change is De Minimis, and no additional testing is required.

Summary Description:

The Commercial Off the Shelf (COTS) workstation that Hart uses for its Verity workstations, the Hewlett Packard (HP) Z240, is End-of-Life (EOL) and no longer manufactured. Hart will use the HP Z4 G4 workstation as an equivalent replacement to the HP Z240.

The COTS display for use with the HP Z240 is also EOL and is replaced. The manufacturer has recommended that the P232 display be replaced by the P244.

New drivers are required to be added to the OS image to support the equivalent workstation hardware, however, the Windows operating system build and Verity Software are not modified by the change.

Reference Documents:

- EAC 2005 Voluntary Voting System Guidelines (VVSG) Volume II, Sec. 1 & 4
- EAC Voting System Testing and Certification Program Manual V. 2, Sec. 3.4 & 3.5
- NOC 12-01 COTS Computer Equivalency for de minimis Change

Documentation used in SLI's Assessment:

- ECO-01393 Summary - Verity 2.4 Support for Updated HP Workstation and Display 4005664 A00
- HP Z4 G4 Verity 2.4 Workstation Manufacturing 4005667 A00

- HP Z4 G4 with Verity 2.4.2 QA Test Report
- HP Z4 G4 Tower Workstation Quick Specs
- HP ProDisplay P244 23-inch Monitor Datasheet

Conclusion:

Hart's ECO-01393 updates the Z240 workstation and P232 with the manufacturer suggested replacement, the Z4 G4 workstation and the P244 display. The HP Z4 G4 workstation and the P244 display both support all features utilized by the Verity system and have equivalent or better regulatory specifications and performance.

A Workstation Manufacturing Process Document for Z4 G4 workstation deployments on Verity 2.4 has been created. The document content parallels the Verity Workstation Manufacturing document included in the Verity 2.4 TDP.

Hart has performed end-to-end Quality Assurance testing using the updated workstation images. As part of the supporting documentation, Hart has provided a QA test report including descriptions of testing performed and records of test results.

SLI performed a comparison of workstation hash files from the Verity 2.4 Trusted Build to the new hash files from the Z4 G4 workstations, demonstrating that the Verity software is unaffected. In addition, SLI has assessed the hardware change in ECO-01393, including supporting documentation. The requested change does not affect the system's reliability, functionality, capability, operation, or software. SLI considers the nature of this change to be De Minimis and therefore not to affect the Federal certification status for all applicable Verity releases. Hart's internal testing performed is appropriate. No additional testing is required.

As required under section 3.4.3 of the EAC's Voting System Testing and Certification Program Manual Version 2.0, Hart InterCivic has provided the necessary information for SLI to verify the ECO-01393 change is De Minimis.

If you have questions regarding this assessment, please contact Darrick Forester.

Sincerely,



Traci Mapps

Director